

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3: (Canceled)

- 1 4. (Previously Presented) The data authentication system of claim 8 wherein the
2 indication is an offset value for a pseudorandom sequence known to a sender and
3 an intended recipient.

- 1 5. (Original) The data authentication system of claim 4 wherein the pseudorandom
2 sequence is generated using a seed value known by the sender and the intended
3 recipient.

- 1 6. (Previously Presented) The data authentication system of claim 8 wherein the
2 integrity check processor uses information in the one or more data packets as one or
3 more offset values for a pseudorandom sequence known to a sender and an
4 intended recipient.

- 1 7. (Original) The data authentication system of claim 6 wherein the pseudorandom
2 sequence is generated using a seed value known by the sender and the intended
3 recipient.

- 1 8. (Previously Presented) A data authentication system comprising:
2 A. an integrity check processor that
3 i. selects one or more integrity functions from a set of functions,
4 and
5 ii. manipulates m selected data bytes from each of one or more
6 data packets in accordance with the selected integrity check
7 functions to produce one or more integrity checks that
8 correspond to the one or more data packets; and

9 B. an integrity block processor that so encrypts the one or more integrity
10 checks produced by the integrity check processor as to permit their
11 decryption only with a non-public key and produces an integrity block that is
12 used to authenticate the data packets;
13 wherein the integrity check processor includes in the integrity check an
14 indication of which integrity function to select; and
15 wherein the integrity check processor selects more than one integrity
16 function for a given data packet and includes in the integrity check information
17 that identifies a list of the selected functions and a corresponding list of the
18 results of the manipulations.

1 9. (Previously Presented) The data authentication system of claim 8 wherein the
2 integrity block processor encrypts the integrity checks in accordance with a secret
3 key that is shared by intended recipients of the data packets.

1 10. (Previously Presented) A data authentication system comprising:

2 A. an integrity check processor that
3 i. selects one or more integrity functions from a set of functions,
4 and
5 ii. manipulates m selected data bytes from each of one or more
6 data packets in accordance with the selected integrity check
7 functions to produce one or more integrity checks that
8 correspond to the one or more data packets; and
9 B. an integrity block processor that so encrypts the one or more integrity
10 checks produced by the integrity check processor as to permit their
11 decryption only with a non-public key and produces an integrity block that is
12 used to authenticate the data packets,
13 wherein the integrity check processor selects the m data bytes
14 at random from a first data packet, and for any remaining data packets
15 selects data bytes that are offset from the data bytes selected from the
16 first data packet.

1 11. (Previously Presented) A data authentication system comprising:

2 A. an integrity check processor that
3 i. selects one or more integrity functions from a set of functions,
4 and
5 ii. manipulates m selected data bytes from each of one or more
6 data packets in accordance with the selected integrity check
7 functions to produce one or more integrity checks that
8 correspond to the one or more data packets; and
9 B. an integrity block processor that so encrypts the one or more integrity
10 checks produced by the integrity check processor as to permit their
11 decryption only with a non-public key and produces an integrity block that is
12 used to authenticate the data packets,
13 wherein the integrity block processor encrypts into the integrity
14 block information that identifies the data bytes selected from each of
15 the data packets.

1 12. (Original) The data authentication system of claim 11 wherein the information
2 includes data byte interval and offset values.

1 13. (Previously Presented) The data authentication system of claim 8 wherein the
2 integrity check processor includes in the integrity checks one or more sequence
3 numbers that are associated with the data packets.

1 14. (Previously Presented) A data authentication system comprising:

2 A. an integrity check processor that
3 i. selects one or more integrity functions from a set of functions,
4 and
5 ii. manipulates m selected data bytes from each of one or more
6 data packets in accordance with the selected integrity check
7 functions to produce one or more integrity checks that
8 correspond to the one or more data packets; and
9 B. an integrity block processor that so encrypts the one or more integrity
10 checks produced by the integrity check processor as to permit their

11 decryption only with a non-public key and produces an integrity block that is
12 used to authenticate the data packets,
13 wherein the integrity block processor assembles the plurality of
14 integrity checks in an order that differs from the order of the data
15 packets and encrypts into the integrity block information that
16 associates the integrity checks with the appropriate data packets.

1 15. (Original) The data authentication system of claim 14 wherein the integrity
2 block processor encrypts into the integrity block a list of sequence numbers that
3 corresponds to the order of the integrity checks within the integrity block.

1 16. (Previously Presented) The data authentication system of claim 10 wherein the
2 integrity check processor produces digital signatures for one or more of the data
3 packets and includes the digital signatures in the respective data packets.

1 17. (Previously Presented) The data authentication system of claim 10 wherein the
2 integrity block processor produces a digital signature for the integrity block and
3 includes the digital signature in the integrity block.

1 18. (Previously Presented) The data authentication system of claim 10 wherein the
2 selected integrity check function concatenates the selected data bytes from a given
3 data packet to produce the associated integrity check.

1 19. (Previously Presented) The data authentication system of claim 10 further
2 including a chaff processor for producing for transmission extraneous packets that
3 are associated with and do not pass one or more of the integrity checks, the chaff
4 processor including the extraneous packets in a transmission that includes the data
5 packets.

1 20. (Previously Presented) The data authentication system of claim 10 wherein the
2 integrity block processor encrypts into the integrity block executable code that
3 performs the selected integrity check function.

1 21. (Original) The data authentication system of claim 20 wherein the integrity
2 block processor signs the executable code with a digital signature.

Claims 22 and 23: (Canceled)

1 24. (Previously Presented) A communications network comprising:
2 A. one or more sending stations for sending data packets;
3 B. one or more recipient stations for receiving the data packets sent by
4 the sending stations; and
5 C. an authentication system that includes
6 i. an integrity block processor for:
7 a. selecting one or more integrity functions from a set of
8 integrity functions,
9 b. manipulating one or more selected data bytes from a
10 given data packet in accordance with the one or more
11 selected integrity check functions to produce the
12 corresponding integrity check, and
13 c. so encrypting the one or more integrity checks that are
14 associated with one or more data packets as to permit
15 their decryption only with a non-public key, producing
16 therefrom an integrity block, and including the integrity
17 block in a transmission to the recipient stations, and
18 ii. authentication means for decrypting a received integrity block to reproduce
19 the one or more integrity checks and using information contained in the
20 reproduced integrity checks to select one or more integrity check functions
21 and one or more data bytes to use to determine if data in the associated one
22 or more data packets have been altered, wherein the authentication means
23 uses information in the integrity check or in the associated data packet as an
24 offset value into a pseudo random sequence known to the sender and an
25 intended recipient and uses the next n bits of the sequence to identify the
26 selected integrity check.

1 25. (Previously Presented) The communications network of claim 24 wherein the
2 authentication means uses the one or more integrity checks, the integrity check
3 functions identified therein and the selected data bytes from the one or more data
4 packets to determine if the data packets have been altered.

1 26. (Previously Presented) The communications network of claim 24 wherein the
2 integrity block processor is included in each of the one or more sending stations and
3 the authentication means is included in each of the one or more recipient stations.

1 27. (Previously Presented) The communications network of claim 24 wherein the
2 integrity block processor encrypts the integrity checks and the authentication means
3 decrypts the integrity blocks in accordance with one or more secret keys that are
4 shared by the sending stations and the intended recipient stations.

1 28. (Previously Presented) A communications network comprising:
2 A. one or more sending stations for sending data packets;
3 B. one or more recipient stations for receiving the data packets sent by
4 the sending stations; and
5 C. an authentication system that includes
6 i. an integrity block processor for:
7 a. selecting one or more integrity functions from a set of
8 integrity functions,
9 b. manipulating one or more selected data bytes from a
10 given data packet in accordance with the one or more
11 selected integrity check functions to produce the
12 corresponding integrity check, and
13 c. so encrypting the one or more integrity checks that are
14 associated with one or more data packets as to permit
15 their decryption only with a non-public key, producing
16 therefrom an integrity block, and including the integrity
17 block in a transmission to the recipient stations, and
18 ii. authentication means for decrypting a received integrity block to reproduce
19 the one or more integrity checks and using information contained in the

20 reproduced integrity checks to select one or more integrity check functions
21 and one or more data bytes to use to determine if data in the associated one
22 or more data packets have been altered, wherein the integrity block
23 processor selects one or more data bytes at random from a first data packet
24 and selects from the remaining data packets data bytes that are offset from
25 the data bytes selected from the first data packet based on the information
26 contained in the associated integrity checks.

1 29. (Previously Presented) The communications network of claim 24 wherein the
2 integrity block processor encrypts into an integrity block the information that
3 identifies the integrity check function.

1 30. (Previously Presented) A communications network comprising:

- 2 A. one or more sending stations for sending data packets;
- 3 B. one or more recipient stations for receiving the data packets sent by
4 the sending stations; and
- 5 C. an authentication system that includes
 - 6 i. an integrity block processor for:
 - 7 a. selecting one or more integrity functions from a set of
8 integrity functions,
 - 9 b. manipulating one or more selected data bytes from a
10 given data packet in accordance with the one or more
11 selected integrity check functions to produce the
12 corresponding integrity check, and
 - 13 c. so encrypting the one or more integrity checks that are
14 associated with one or more data packets as to permit
15 their decryption only with a non-public key, producing
16 therefrom an integrity block, and including the integrity
17 block in a transmission to the recipient stations, and
 - 18 ii. authentication means for decrypting a received integrity block to reproduce
19 the one or more integrity checks and using information contained in the
20 reproduced integrity checks to select one or more integrity check functions
21 and one or more data bytes to use to determine if data in the associated one

22 or more data packets have been altered, wherein the integrity block
23 processor encrypts into an integrity block the information that identifies the
24 data bytes selected for each of the one or more data packets by the integrity
25 block processor.

1 31. (Original) The communications network of claim 30 wherein the information
2 includes data byte interval and offset values.

1 32. (Previously Presented) The communications network of claim 24 wherein the
2 integrity block processor further includes in the integrity block sequence numbers
3 that correspond to the associated data packets.

1 33. (Previously Presented) A communications network comprising:

- 2 A. one or more sending stations for sending data packets;
- 3 B. one or more recipient stations for receiving the data packets sent by
4 the sending stations; and
- 5 C. an authentication system that includes
 - 6 i. an integrity block processor for:
 - 7 a. selecting one or more integrity functions from a set of
8 integrity functions,
 - 9 b. manipulating one or more selected data bytes from a
10 given data packet in accordance with the one or more
11 selected integrity check functions to produce the
12 corresponding integrity check, and
 - 13 c. so encrypting the one or more integrity checks that are
14 associated with one or more data packets as to permit
15 their decryption only with a non-public key, producing
16 therefrom an integrity block, and including the integrity
17 block in a transmission to the recipient stations, and
 - 18 ii. authentication means for decrypting a received integrity block
19 to reproduce the one or more integrity checks and using information
20 contained in the reproduced integrity checks to select one or more integrity
21 check functions and one or more data bytes to use to determine if data in the

22 associated one or more data packets have been altered, wherein the
23 authentication means assembles the integrity checks in an order that differs
24 from the order of the associated data packets and encrypts into the integrity
25 block information that associates the integrity checks with the appropriate
26 data packets.

1 34. (Original) The communications network of claim 33 wherein the authentication
2 means further encrypts into the integrity block a list of data packet sequence
3 numbers that corresponds to the order of the integrity checks within the integrity
4 block.

1 35. (Previously Presented) The communications system of claim 24 wherein the
2 authentication means further produces a digital signature for each data packet and
3 includes the digital signature in the data packet.

1 36. (Previously Presented) The communications system of claim 24 wherein the
2 authentication means concatenates selected data bytes from a given data packet to
3 produce the associated integrity check.

1 37. (Previously Presented) The communications system of claim 24 wherein the
2 authentication means encodes selected bytes from a given data packet to produce
3 the associated integrity check.

1 38. (Previously Presented) The communications system of claim 24 further
2 including a chaff processor that produces for transmission one or more extraneous
3 packets that are associated with and do not pass one or more of the integrity checks,
4 the chaff processor including the extraneous packets in a transmission with the
5 associated data packets.

1 39. (Previously Presented) The communications system of claim 24 wherein the
2 integrity block processor further includes in the integrity block executable code that
3 performs an integrity check process.

1 40. (Original) The communications system of claim 39 wherein the integrity block
2 processor includes in an integrity block a digital signature that corresponds to the
3 executable code.

Claims 41-43 (Canceled)

1 44. (Previously Presented) The method of claim 45 wherein the step of selecting
2 the integrity functions includes providing associated identifiers as part of the integrity
3 check.

1 45. (Previously Presented) A method of authenticating data that is sent in data
2 packets, the method including the steps of:

- 3 A. selecting one or more integrity functions from a set of integrity
4 functions;
- 5 B. manipulating selected data bytes from a first data packet in
6 accordance with one or more of the selected integrity functions to
7 produce an integrity check;
- 8 C. so encrypting the integrity check as to produce an integrity block in
9 which the integrity check can be decrypted only with a non-public key;
- 10 D. sending the integrity block to intended recipients,
11 wherein the step of selecting the integrity functions includes:
 - 12 i. using information in the data packet as an offset value into a
13 pseudorandom sequence, and
 - 14 ii. using the next n bits of the sequence as the integrity function identifier.

1 46. (Previously Presented) The method of claim 48 further including in the step of
2 encrypting the integrity checks, performing the encryption in accordance with a
3 secret key that is available to the recipients.

1 47. (Original) The method of claim 46 further including in the step of decrypting the
2 integrity block, decrypting the block in accordance with the secret key.

1 48. (Previously Presented) A method of authenticating data that is sent in data
2 packets, the method including the steps of:

- 3 A. selecting one or more integrity functions from a set of integrity
4 functions;
- 5 B. manipulating selected data bytes from a first data packet in
6 accordance with one or more of the selected integrity functions to
7 produce an integrity check;
- 8 C. so encrypting the integrity check as to produce an integrity block in
9 which the integrity check can be decrypted only with a non-public key;
- 10 D. sending the integrity block to intended recipients;
- 11 E. decrypting a received integrity block to reproduce the integrity check;
- 12 F. selecting one or more integrity check functions from the set of
13 functions;
- 14 G. using the reproduced integrity check and the selected integrity check
15 functions to determine if the first data packet is authentic;
- 16 H. manipulating data bytes from additional data packets in accordance
17 with one or more of the selected integrity check functions to produce
18 additional integrity checks;
- 19 I. encrypting the additional integrity checks into the integrity block;
- 20 J. decrypting the received integrity block to reproduce the additional
21 integrity checks;
- 22 K. selecting one or more integrity check functions; and
- 23 L. using the reproduced additional integrity checks and the selected
24 integrity check functions to determine if respective additional data
25 packets are authentic,

26 wherein the step of manipulating data bytes selects the data
27 bytes at random from the first data packet and selects from the
28 additional data packets data bytes that are offset from the data bytes
29 selected from the first data packet.

1 49. (Previously Presented) A method of authenticating data that is sent in data
2 packets, the method including the steps of:

- 3 A. selecting one or more integrity functions from a set of integrity
4 functions;
5 B. manipulating selected data bytes from a first data packet in
6 accordance with one or more of the selected integrity functions to
7 produce an integrity check;
8 C. so encrypting the integrity check as to produce an integrity block in
9 which the integrity check can be decrypted only with a non-public key;
10 D. sending the integrity block to intended recipients;
11 E. decrypting a received integrity block to reproduce the integrity check;
12 F. selecting one or more integrity check functions from the set of
13 functions;
14 G. using the reproduced integrity check and the selected integrity check
15 functions to determine if the first data packet is authentic;
16 H. manipulating data bytes from additional data packets in accordance
17 with one or more of the selected integrity check functions to produce
18 additional integrity checks;
19 I. encrypting the additional integrity checks into the integrity block;
20 J. decrypting the received integrity block to reproduce the additional
21 integrity checks;
22 K. selecting one or more integrity check functions; and
23 L. using the reproduced additional integrity checks and the selected
24 integrity check functions to determine if respective additional data
25 packets are authentic,
26 wherein the step of encrypting the integrity checks further
27 includes encrypting into the integrity block information that identifies
28 the data bytes selected from the data packets.

- 1 50. (Previously Presented) A method of authenticating data that is sent in data
2 packets, the method including the steps of:
3 A. selecting one or more integrity functions from a set of integrity
4 functions;

- 5 B. manipulating selected data bytes from a first data packet in
6 accordance with one or more of the selected integrity functions to
7 produce an integrity check;
8 C. so encrypting the integrity check as to produce an integrity block in
9 which the integrity check can be decrypted only with a non-public key;
10 D. sending the integrity block to intended recipients;
11 E. decrypting a received integrity block to reproduce the integrity check;
12 F. selecting one or more integrity check functions from the set of
13 functions;
14 G. using the reproduced integrity check and the selected integrity check
15 functions to determine if the first data packet is authentic;
16 H. manipulating data bytes from additional data packets in accordance
17 with one or more of the selected integrity check functions to produce
18 additional integrity checks;
19 I. encrypting the additional integrity checks into the integrity block;
20 J. decrypting the received integrity block to reproduce the additional
21 integrity checks;
22 K. selecting one or more integrity check functions; and
23 L. using the reproduced additional integrity checks and the selected
24 integrity check functions to determine if respective additional data
25 packets are authentic,
26 further including in the step of encrypting the integrity checks;
27 the step of encrypting into the integrity block data byte interval
28 and offset values.

1 51. (Previously Presented) The method of claim 50 wherein the step of
2 manipulating the data bytes to produce the integrity checks further includes the step
3 of including in the integrity checks sequence numbers that correspond to the
4 associated data packets.

1 52. (Previously Presented) A method of authenticating data that is sent in data
2 packets, the method including the steps of:

3 A. selecting one or more integrity functions from a set of integrity
4 functions;
5 B. manipulating selected data bytes from a first data packet in
6 accordance with one or more of the selected integrity functions to
7 produce an integrity check;
8 C. so encrypting the integrity check as to produce an integrity block in
9 which the integrity check can be decrypted only with a non-public key;
10 D. sending the integrity block to intended recipients;
11 E. decrypting a received integrity block to reproduce the integrity check;
12 F. selecting one or more integrity check functions from the set of
13 functions;
14 G. using the reproduced integrity check and the selected integrity check
15 functions to determine if the first data packet is authentic;
16 H. manipulating data bytes from additional data packets in accordance
17 with one or more of the selected integrity check functions to produce
18 additional integrity checks;
19 I. encrypting the additional integrity checks into the integrity block;
20 J. decrypting the received integrity block to reproduce the additional
21 integrity checks;
22 K. selecting one or more integrity check functions; and
23 L. using the reproduced additional integrity checks and the selected
24 integrity check functions to determine if respective additional data
25 packets are authentic,
26 wherein the step of encrypting the integrity checks includes
27 assembling the integrity checks in an order that differs from the order
28 of the associated data packets.

1 53. (Original) The method of claim 52 wherein the encrypting step further includes
2 the step of encrypting into the integrity block a list of sequence numbers that
3 corresponds to the order of the integrity checks.

1 54. (Previously Presented) The method of claim 52 further including the step of
2 producing a digital signature for each data packet and including the digital signature
3 in the data packet.

1 55. (Previously Presented) The method of claim 52 further including the step of
2 producing a digital signature for the integrity block and including the signature in the
3 block.

1 56. (Previously Presented) The method of claim 52 wherein the step of
2 manipulating the selective data bytes includes concatenating the selected data bytes
3 from a given data packet to produce the associated integrity check.

1 57. (Previously Presented) The method of claim 52 wherein the step of
2 manipulating the selected data bytes includes encoding the selected bytes from a
3 given data packet to produce the associated integrity check.

1 58. (Previously Presented) The method of claim 52 further including the step of
2 including in a transmission extraneous packets that are associated with and do not
3 pass one or more of the integrity checks.

1 59. (Previously Presented) The method of claim 52 wherein the step of encrypting
2 the integrity checks further includes encrypting into the integrity block executable
3 code that performs an integrity check process.

1 60. (Original) The method of claim 59 wherein the encrypting step further includes
2 encrypting into the integrity block a digital signature associated with the code.

Claims 61 and 62 (Canceled)

1 63. (Previously Presented) The authentication system of claim 68 wherein the
2 integrity block processor produces from the integrity block information to select
3 which integrity check functions to use to manipulate the selected data packets.

1 64. (Original) The authentication system of claim 63 wherein the information
2 determines which function or functions to use for each data packet.

65. (Canceled)

1 66. (Previously Presented) The authentication system of claim 68 wherein the
2 integrity block processor uses a shared secret key to decrypt the integrity block.

1 67. (Previously Presented) The authentication system of claim 68 wherein the
2 integrity block processor decrypts the integrity block to provide to the integrity check
3 processor executable code to use to manipulate the selected data bytes.

1 68. (Currently amended) A data authentication system comprising:

2 A. an integrity block processor that receives a plurality of data packets
3 and an associated integrity block, the integrity block processor manipulating
4 the integrity block to produce a plurality of integrity checks that correspond to
5 the data packets, and

6 B. an integrity check processor that employs a non-public key to decrypt
7 the integrity block and thereby produce the plurality of integrity checks and
8 that uses the integrity checks, integrity check functions selected from a set of
9 functions and selected data bytes from the data packets to determine if any of
10 the data packets have been altered; and

11 ~~The authentication system of claim 61~~

12 wherein the integrity block processor further produces from the
13 integrity block information to determine which data bytes to select from the
14 data packets, and

15 wherein the integrity check processor uses information in the integrity
16 checks to determine which data bytes to select from the one or more data
17 packets.

1 69. (Previously Presented) The authentication system of claim 68 wherein the
2 integrity check processor uses a digital signature included in the integrity block to
3 authenticate the integrity block.

1 70. (Previously Presented) The authentication system of claim 68 wherein the
2 integrity check processor uses one or more digital signatures included in the one or
3 more data packets to further authenticate the data packets.

Claims 71-76 (Canceled)

1 77. (Previously Presented) A computer data signal embodied in a carrier wave and
2 representing sequences of instructions for authenticating data packets, the
3 instructions comprising instructions for:
4 configuring at least one sending station to produce an encrypted integrity
5 block for a plurality of data packets using one or more integrity check functions
6 selected from a set of integrity check functions, which integrity block is so encrypted
7 as to permit its decryption only with a non-public key; and
8 at the configured sending station selecting one or more data bytes from each
9 data packet and producing an associated integrity check that is used with the
10 integrity checks for the other data packets to produce the encrypted integrity block,
11 wherein the selection of data bytes from a first data packet is random
12 and the data bytes selected from remaining data packets are offset from the
13 data bytes selected from the first data packet.

1 78. (Previously Presented) The computer data signal of claim 77 wherein the
2 integrity block is encrypted in accordance with a shared secret key.

1 79. (Previously Presented) The computer data signal of claim 77 wherein the one
2 or more integrity checks are produced by concatenating selected data bytes from
3 respective data packets.

1 80. (Previously Presented) The computer data signal of claim 77 wherein the one
2 or more integrity checks are produced by encoding selected data bytes from
3 respective data packets.

1 81. (Previously Presented) The data signal of claim 77 further comprising
2 instructions for;
3 configuring at least one receiving station to decrypt the encrypted integrity
4 block to reproduce the one or more integrity checks; and
5 at the configured receiving station using the one or more integrity checks to
6 authenticate the one or more data packets.

1 82. (Original) The computer data signal of claim 81 wherein the one or more
2 integrity checks are associated with the appropriate one or more data packets prior
3 to authentication.

1 83. (Previously Presented) The computer data signal of claim 77 further including
2 configuring the sending station to transmit one or more extraneous data packets that
3 are associated with the integrity block but do not pass authentication tests.

84. (Canceled)

Art Unit: 2137

Allowable Subject Matter

3. The communication dated March 24, 2005 with the cancellation of claims 1-3, 22-23, 41-43, 61-62, 65, 71-76 and 84, and the amendments to claims 4, 6, 8-11, 13-14, 16-20, 24-30, 32-33, 35-39, 44-46, 48-52, 54-59, 63, 66-70, 77-81, 83 has been fully considered.

4. Claims 4-21, 24-40, 44-60, 63-64, 66-70, and 77-83 are allowed.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Dieu Nguyen whose telephone number is 571-272-3873. The examiner can normally be reached on M-F 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Minh Dieu Nguyen
Examiner
Art Unit 2137

mdn
4/6/05



**ANDREW CALDWELL
SUPERVISORY PATENT EXAMINER**